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Assumed Mean Places of the Stars, 1854·0.

		h	m	s	°	′	″
a	B.A.C. 348	1	3	36·90	69	44	35·4
b	Bessel Z. 200	1	15	32·28	70	17	40·5
c	— —	1	26	52·98	70	34	28·7
d	B.A.C. 523	1	34	34·87	70	26	32·1
e	— 533	1	36	57·70	70	38	50·9
f	Lalande 3188	1	36	55·81	70	52	38·4
g	B.A.C. (572...3)	1	45	31·53	71	25	21·2
h	Bessel Z. 200	1	48	16·38	70	58	59·3
i	— 332	1	54	19·45	71	19	2·0
k	B.A.C. 771	2	22	48·93	72	56	35·9

"The above observations were taken by noting the times of passage for comet and star over two bars at right angles, whose inclination to a parallel ($\varkappa = 44^\circ\, 47'$) was deduced from our observations of the sun, according to the method explained in the last *Monthly Notice*.

"Corrections for hourly motion of the comet while passing from one bar to the other were applied, by adding to its R.A. the quantity

$$-\tfrac{1}{2}(P_b - P_a) \cdot \varkappa,$$

and by multiplying the quantity C D for the comet by the additional factor

$$\frac{3600}{3600 + I} \cdot (1 - \varkappa^2)$$

where I = hourly motion in R.A., I′ in N.P.D., and $\varkappa = \dfrac{I'}{3600 \,.\, 15 \,.\, \sin \delta}$.

"The hourly motions were taken from an ephemeris computed for the purpose from the elements given in the last *Notice*. The perihelion passage is there incorrect from a fault of my own: it should have been March $24^{d}\cdot 12742$.

"N.B. The observation on March 29 was taken at nearly 87° zenith distance.

R. C. Carrington.

"1854, *April* 28."

Extract of a Letter from Prof. Argelander to the Astronomer Royal, dated April 7, 1854, *accompanying two sets of Elements, and an Ephemeris of the Comet now visible.*

"Without doubt you will before this time have found the fine comet, which is now visible in the evening twilight. But under the uncertainty whether the weather has been sufficiently favourable to enable you to obtain a competent number of observations for the determination of an orbit, I take the liberty to forward to you two sets of elements which have been computed, the first by M. Schönfeld, the second by M. Krüger and M. Förster, together with an ephemeris based on the latter elements.* The near agreement of

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* A few copies of this ephemeris were printed off and distributed among the various observers in the country.

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the two sets warrants a favourable judgment on their correctness, although the first observation by Luther on which they are based, is not very certain. Still we have preferred this to our own observation, since we were not able to observe the comet, which was discovered by M. Krüger on March 30, in a satisfactory manner, till April 2. On the preceding days clouds permitted only some rough estimations of its place.

Elements of the Second Comet of 1854.

	By Schönfeld. From Bilk Obs. of April 1, and Bonn Obs. of April 2 and 3. T. Mar. 24·0029, M.T. Berlin.	By Krüger and Förster. From Bilk Obs. of April 1, and Bonn Obs. of April 3 and 5. Mar. 24·0336, M.T. Berlin.
	° ′ ″	° ′ ″
ϖ	215 7 33	214 37 21
☊	316 2 21	315 42 0
i	83 53 40	84 19 44
log *q*	9·43873	9·43904

Motion retrograde.

"This comet is *not* identical with that of Brorsen, discovered on March 16, in R.A. $2^h\ 30^m\ 12^s$, and Decl. $+1°\ 11'{\cdot}2$, since the present comet, at the time of Brorsen's observation, was in R.A. $22^h\ 57^m$, and Decl. $+5°$."

Extract of a Letter from M. Laugier to Mr. Hind.

"Allow me to send you the observations of the new comet which I have made conjointly with MM. Charles Mathieu and Ernest Liouville.

"The place of observation, situate at No. 183 Rue de Vaugiraud, Paris, is 2^s to the west, and 24″ north of the observatory. The equatoreal employed is by M. Brunnen, artist of the Board of Longitudes, who placed it at our disposal. The whole of the observations are corrected for refraction.

1854.	Paris M.T. h m s	Comet's R.A. h m s	Comet's Decl. ° ′ ″
March 31	7 21 43	1 36 44·14	+19 16 20·3
April 1	7 19 11	1 51 39·65	18 43 8·6
2	7 29 28	2 6 11·75	18 0 31·2
3	7 54 16	2 20 11·80	17 10 41·0
5	7 46 50	2 46 13·24	15 15 6·3
6	7 51 18	2 57 4·54	14 17 7·8
7	7 39 56	3 7 49·95	13 18 0·4
8	7 40 13	3 17 59·68	12 16 29·0
9	7 48 56	3 27 18·74	11 15 32·9
10	7 55 19	3 36 13·10	10 15 43·4
13	7 55 30	3 59 45·06	7 28 14·8
15	8 13 27	4 13 3·67	+ 5 45 17·6